**RAHUL ANAND**

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**EDUCATION**

**Purdue University, West Lafayette, IN, USA Projected May’17**

Master of Science in Civil Engineering. Specialization: Construction Engineering **3.7/4.0**

**MSRIT, Visvesvaraya Technical University, India Jun’13**

Bachelor of Engineering in Civil Engineering **8.4/10.0**

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| --- | --- | --- | --- | --- |
| **Technical Skills (Entry Level)** | | **Soft Skills** | **Certificates** | **Relevant Coursework** |
| - Front End Loading  - Feasibility Analysis  - Planning  - Constructability  - Work Packaging  - Scheduling  - Schedule Control  - Estimating  - Cost Control | - Change Management  - Progression  - Forecasting (EVA, ESA)  - Site Execution  - Risk Analysis  - Data Analysis  - Regression  - Lessons Learned  - Site Management | - Primavera P6  - MS Project  - Revit  - Synchro  - Navisworks  - AutoCAD  - MS Office | - Engineer in Trainee  (E.I.T)  - LEED Green Associate  - CADD Centre  Certification:  -Primavera P6  -MS Project  -Estimation & Costing | - Project Control  - Advanced Project Management  - Infrastructure Planning  - Construction Business Management  - Business Analytics  - Computer Application in Construction  - Construction Equipment  - Lean (Engineering Procurement  Construction) EPC |

**RESEARCH AND THESIS**

* Conducted literature review on various current and best practices on project control, and performed gap analysis among current practices, best practices and the advancements in practices which could be made
* Researching on the advancements of project control management system (PCMS) concepts and practices to fill in the gaps
* Describing and documenting lean/Kaizen methodology for PCMS work process innovation and standardization

**ACADEMIC PROJECTS (at Purdue)**

**Simulation, schedule, cost, performance analysis**

* Project behind schedule (forecast time overruns – simulations of various mitigation approaches)
* Analysis on established metrics for performance (time, resources, and cost)
* Simulation exercise carried out on line of balance - resource deployment options
* Cause effect diagram related to findings and project assessment summary report

**Risk analysis and mitigation strategies for “The Illiana Corridor”, highway Public Private Partnership (PPP) project, between Indiana and Illinois**

* Conducted literature review to find risks and associated mitigation strategies for worldwide highway PPP projects
* Performed Analytical Hierarchy Process (AHP) to prioritize the risk concerning conditions associated with the Illiana corridor
* Conducted literature review for the mitigation strategies of top 5 risk associated with the Illiana Corridor highway project

**Exercise on development of execution control schedule and detailed execution planning with BIM**

* A team assembled from various discipline prepared BIM model with the contributions of different colleges
* Interaction of constructability with the construction team, sliced model into various construction sequence tasks
* Prepared quantity take off at task level, created an inventory schedule using JIT concept
* Prepared detailed day to day execution schedule and level 2 controlled schedule
* Prepared a visual presentation animation – considering task sequence from constructability approach to conceived constructability

**Feasibility analysis of the redevelopment of State Street in West Lafayette, Indiana**

* It is an ongoing project at Purdue to transform area around campus into a better place for residents and business owners
* Performed feasibility study to examine the project from engineering and construction aspects that included project scope and constraints, studying and prioritizing alternatives, and defining matrices for evaluation
* Analyzed the best engineering and construction alternatives using life-cycle, benefit-cost and (Analytical Hierarchy Process) AHP analysis

**Planning and (3D) Design of an office building, originally designed as a residential building called ‘Villa Savoye’, in Poissy**

* Conducted (3D) design of the building using Autodesk Revit to design the building’s structural, architectural, MEP elements and carried out quantities take off
* Developed a cost estimating tool using Visual Basic in Excel and extracted quantities from the Revit model to calculate costs
* Created Work Breakdown Structure (WBS), activities, schedule and also loaded each activity with cost using Primavera scheduling software
* Developed a (4D) model by linking (3D) Revit model with schedule created in Primavera using Autodesk Navisworks. The 4D model was created to detect clash and visualize the time based (3D) animation of the building.

**PROFESSIONAL EXPERIENCE**

**Consulting Intern, Purdue EPCOM Jul’16-Aug’16**

* Assisted in the assessment of work process, procedures, and policies of Tripatra, the largest EPC in Indonesia
* Performed gap analysis; researched and recommended industry’s best practices to fill in the gaps, on site in Indonesia
* Under the guidance of Industry’s consultant made recommendations for the standardization of work process, procedures, and policies

**Project Engineer, Anand Builders, Dolphin Developers LTD, India Nov’13- Jun’15**

1. Anand Golf Estates (company’s largest residential township project)

* Participated in pre-construction: project execution planning, defining scope, and constructability
* Assisted in the development of work breakdown structure and project execution schedule

2. Gooba Garden (residential tower)

* Participated in all site day to day work: performed site inspection, participated in *everyday* and *look ahead* meetings, planed site day to day work, helped in the preparation of job cards, managed concreting, participated in safety management, created and tracked RFI’s, prepared and inspected submittals, did weekly and monthly reporting and acted as a liaison between field and head office
* Participated in estimation: prepared bill of quantity, maintained costs data base, aided in bid preparation for subs, updated cost, etc.
* Participated in project control: performed earned value analysis, participated in change management process, updated schedule and S-curve, etc.

**LEADERSHIP EXPERIENCE & EXTRA-CURRICULAR ACTIVITIES**

* Captain of a team of five from Purdue in the **Global Synchro University Challenge**; secured finalist position **2016**
* Championship runner-up at Entrepreneurship Week, national level intercollegiate competition, India **2012**
* Second runner up at aptitude test conducted by IEEE, India **2012**
* Volunteer engineer for the construction of low-cost toilets for an NGO in India **2013**
* Boiler out volunteer, community service organization at Purdue **2015**

Please visit my Linked In for detail information of my resume: www.linkedin.com/in/reachranand